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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/628,901	07/28/2003	Winthrop D. Childers	200210016-1	7435
22879	7590	11/22/2004	EXAMINER	
HEWLETT PACKARD COMPANY P O BOX 272400, 3404 E. HARMONY ROAD INTELLECTUAL PROPERTY ADMINISTRATION FORT COLLINS, CO 80527-2400			TRIEU, VAN THANH	
			ART UNIT	PAPER NUMBER
			2636	

DATE MAILED: 11/22/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 10/628,901	<b>Applicant(s)</b> CHILDERS, WINTHROP D.	
	<b>Examiner</b> Van T Trieu	<b>Art Unit</b> 2636	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 28 July 2003.
- 2a) ☐ This action is **FINAL**.      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-44 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-4, 6-9, 11-15, 17-23, 26-31, 33-37, 39, 40 and 42-44 is/are rejected.
- 7) ☒ Claim(s) 5, 10, 16, 24, 32, 38 and 41 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948)  | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>7/28/03</u> . | 6) <input type="checkbox"/> Other: _____  |

## ***DETAILED ACTION***

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

1. Claims 1-3, 7, 8, 23, 25, 26, 34-36, 40 and 42 are rejected under 35

U.S.C. 102(b) as being anticipated by **Miyashita et al** [US 6,268,799].

Regarding claim 1, the claimed method of operating a projector comprising: coupling a lamp containing a memory device onto the projector (the lamp unit 105 containing a memory 107 and RAM 103 are coupled to the projection type display apparatus 200, see Figs. 4A and 11, col. 10, lines 25-38 and col. 14, lines 49-56); and the transmitting information contained within the memory device to the projector (the lamp information stored in the memory 107 and RAM 103 are transmitted to the CPU 101 of the projector lamp 105 or 200, see Figs. 4A, 4B and 11, col. 10, lines 35-38, col. 11, lines 59-65, col. 13, lines 51-67 and col. 14, lines 38-56); and the displaying lamp retail sale information, included within the information, when lamp failure is anticipated to be near (the light source device is provided with a display screen to display the lamp information and warning to indicate the life expiration draws near. The projection-type display may presents a warning display on its body, see Figs. 5-9, col. 11, lines 59-67, col. 12, lines 1-25 and 45-65, col. 13, lines 52-67 and col. 14, lines 1-47).

Regarding claim 2, all the claimed subject matters are cited in respect to claim 1 above, and including the anticipating lamp failure comprises measuring a time of lamp operation; the adding the measured time to previously measured time; the recording a sum of the measured time and the previously measured time estimating life expectancy of the lamp based on the sum, and providing an operator of the projector with information concerning life expectancy of the lamp when the estimated life expectancy is below a threshold (the comparing and computation of remaining life and expiration time of the life of the lamp, see Figs. 5-9, col. 3, lines 11-29, col. 4, lines 28-48, 5, lines 22-31, col. 11, lines 59-67 and col. 12, lines 1-65 and col. 14, lines 1-36).

Regarding claim 3, all the claimed subject matters are cited in respect to claim 1 above, and including the claimed obtaining current firmware revision level information from the projector; comparing the current firmware revision level information to firmware information contained within the memory device; and where the comparing reveals that a later firmware version is available, providing an operator of the projector with information concerning availability of the later firmware version (the new and/or old lamp information are updated and compared with information stored in the memory 107 and RAM 103 for indicating accurate current information of that lamp, see Figs. 5-9, col. 4, lines 28-48, col. 12, lines 2-12, col. 13, lines 52-67 and col. 14, lines 1-36).

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Regarding claim 7, all the claimed subject matters are cited in respect to claims 1 and 2 above.

Regarding claim 8, all the claimed subject matters are cited in respect to claims 3 and 7 above.

Regarding claim 23, all the claimed subject matters are cited in respect to claims 1 and 7 above.

Regarding claim 25, all the claimed subject matters are cited in respect to claims 2 and 23 above.

Regarding claim 26, all the claimed subject matters are cited in respect to claims 3 and 23 above.

Regarding claim 34, all the claimed subject matters are cited in respect to claims 3 and 7 above.

Regarding claim 35, all the claimed subject matters are cited in respect to claims 2 and 34 above.

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Regarding claim 36, all the claimed subject matters are cited in respect to claims 1 and 34 above.

Regarding claim 40, all the claimed subject matters are cited in respect to claim 1 above.

Regarding claim 42, all the claimed subject matters are cited in respect to claims 3 and 40 above.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 4, 9, 27, 29, 30, 31, 37 and 43 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Miyashita et al** [US 6,268,799].

Regarding claim 4, **Miyashita et al** fails to disclose the obtaining product ID information from the projector, comparing the product ID information to a recall list contained within the memory device; and where a recall is indicated, providing an operator of the projector with information concerning the recall. However, **Miyashita et al** teaches that the CPU 101 retrieves all information about operation time, life time, power level and new/old of each lamps A, B and C from the memory 107 and predetermined register in

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RAM 103 for viewing by a user or operator, see Figs. 4A and 5, col. 11, lines 1-58.

Since the CPU 101 controls and executes the programs RAM 103 and memory 107 for storing digital information and registration of each lamps A, B and C. Therefore, it would have been obvious to one skill in the art to recognize that the information registration of each lamp A, B or C includes its own identification information to be recognized and identified by the computer programming system and by the user or operator for distinguishing between the lamps A, B and C under monitoring or recalling.

Regarding claim 9, all the claimed subject matters are discussed in respect to claims 4 and 7 above.

Regarding claim 27, all the claimed subject matters are discussed in respect to claims 4 and 23 above.

Regarding claim 29, all the claimed subject matters are discussed in respect to claims 4 and 7 above.

Regarding claim 30, all the claimed subject matters are discussed in respect to claims 3 and 29 above.

Regarding claim 31, all the claimed subject matters are discussed in respect to claims 2 and 29 above.

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Regarding claim 37, all the claimed subject matters are discussed in respect to claims 4 and 34 above.

Regarding claim 43 all the claimed subject matters are discussed in respect to claims 4 and 40 above.

3. Claims 6, 11-15, 17-22, 28, 33, 39 and 44 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Miyashita et al** [US 6,268,799] in view of **Helbing et al** [US 6,362,573].

Regarding claim 6, **Miyashita et al** fails to disclose the communicating with a remote server at an address contained within the memory device, obtaining, from the remote server, new information selected from the group comprising: firmware revision level information, product recall information, and lamp retail sales information, and disclosing the new information to an operator of the projector. However, **Miyashita et al** teaches that the local CPU 101, ROM 102, RAM 103 and memory 107 are programmed to operate, monitoring, controlling and to provide information of each of the lamps A, B and C to a user or operator as discussed in respect to claims 1-4 above, see Figs. 5-9 and 11. **Helbing et al** suggests that the control circuit 20 includes a processor 31 and storage elements RAM, ROM, EPROM, EEPROM, PROM, CD-PROM, for storing lamp bulb property values and a display 36 for displaying lamp information. The control circuit 20 includes a modem or network card 37 to establish communication with a



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remote computer on a network to order a replacement lamp bulb when the control circuit 20 detects that the current lamp bulb property value is approaching the statistical end-of-life lamp bulb property value, see Figs. 1 and 2, col. 4, lines 8-36. Therefore, it would have been obvious to one skill in the art at the time the invention was made to implement the remote computer or network of **Helbing et al** to the CPU of **Miyashita et al** for extending controlling and monitoring of the projector lamps with quicker response to the approaching end of expectation life of the lamp for preventing of delaying time to replace a death lamp.

Regarding claim 11, all the claimed subject matters are discussed between **Miyashita et al** and **Helbing et al** in respect to claims 6 and 7 above.

Regarding claim 12, all the claimed subject matters are discussed between **Miyashita et al** and **Helbing et al** in respect to claims 1, 7 and 11 above.

Regarding claim 13, all the claimed subject matters are discussed between **Miyashita et al** and **Helbing et al** in respect to claim 12 above, and including the local interface 34 and the keyboard 35, see Fig. 2 of **Helbing et al**.

Regarding claim 14, all the claimed subject matters are discussed between **Miyashita et al** and **Helbing et al** in respect to claims 3 and 12 above.

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Regarding claim 15, all the claimed subject matters are discussed between **Miyashita et al** and **Helbing et al** in respect to claims 4 and 12 above.

Regarding claim 17, all the claimed subject matters are discussed between **Miyashita et al** and **Helbing et al** in respect to claims 2 and 12 above.

Regarding claim 18, all the claimed subject matters are discussed between **Miyashita et al** and **Helbing et al** in respect to claims 12 and 13 above.

Regarding claim 19, all the claimed subject matters are discussed between **Miyashita et al** and **Helbing et al** in respect to claims 2 and 18 above.

Regarding claim 20, all the claimed subject matters are discussed between **Miyashita et al** and **Helbing et al** in respect to claims 6 and 18 above.

Regarding claim 21, all the claimed subject matters are discussed between **Miyashita et al** and **Helbing et al** in respect to claims 3 and 18 above.

Regarding claim 22, all the claimed subject matters are discussed between **Miyashita et al** and **Helbing et al** in respect to claims 4 and 18 above.

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Regarding claim 28, all the claimed subject matters are discussed between **Miyashita et al** and **Helbing et al** in respect to claims 6 and 23 above.

Regarding claim 33, all the claimed subject matters are discussed between **Miyashita et al** and **Helbing et al** in respect to claims 6 and 29 above.

Regarding claim 39, all the claimed subject matters are discussed between **Miyashita et al** and **Helbing et al** in respect to claims 6 and 34 above.

Regarding claim 44, all the claimed subject matters are discussed between **Miyashita et al** and **Helbing et al** in respect to claims 6 and 40 above.

### ***Conclusion***

4. Claims 5, 10, 16, 24, 32, 38 and 41 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

**Edwards et al** discloses a lighting apparatus including a light source, counting means for counting actual amount of time that the light source has been used and recording

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means in communication with the counting means for recording the actual amount of time that the light source has been used. [US 6,483,247]

**Ueyama et al** discloses a projector having a LCD display panel for displaying an image and the projector data related to lamp such as the life of the lamp. [US 6,467,911]

6. Any inquiry concerning this communication or earlier communications from examiner should be directed to primary examiner **Van Trieu** whose telephone number is (571) 272-2972. The examiner can normally be reached on Mon-Fri from 7:00 AM to 3:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. **Jeffery Hofsass** can be reached on (571) 272-2981.

A handwritten signature in black ink, appearing to read 'Van Trieu', with a long, sweeping horizontal line extending to the right.

**Van Trieu**  
**Primary Examiner**  
**Date: 11/17/04**